



Pennsylvania Power & Light Company

Two North Ninth Street • Allentown, PA 18101 • 215/770-5151

August 13, 1985

Mr. Paul Koval
Chief Operations Section
Bureau of Water Quality Management
Pennsylvania Department of Environmental Resources
P.O. Box 659
90 East Union Street, Second Floor
Wilkes-Barre, PA 18702

SUSQUEHANNA STEAM ELECTRIC STATION
DIESEL GENERATOR CLOSED COOLING SYSTEMS
CHEMICAL TREATMENT
CCN 741326 FILE 138-01
PLE-7469

Dear Mr. Koval:

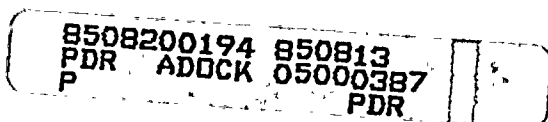
The Pennsylvania Power and Light Company (PP&L) requests approval for the disposal of chemicals used to clean the Diesel Generator Closed Cooling Systems at the Susquehanna SES. There are presently four operational Diesel Generators and one under construction. Each closed system has a capacity of approximately 400 gallons or 1,600 gallons for the four operational diesels. The cleaning procedure is as follows:

- o Add Betz Prefilm 108L and allow to circulate 2 hours.
- o Flush system.
- o Add 3 oz. of quaternary biocide and circulate for 2 hours.
- o Flush system.
- o Add chlorine (sodium hydrochloride) at a level of 5 ppm (active Cl₂) and circulate for 1 (one) hour.
- o Flush system.

This cleaning activity will be conducted every few years or as needed.

PP&L has reviewed the disposal of the chemical treatment flushings and requests the following approvals:

- o Discharge the Betz Prefilm 108L flushing into the sewage treatment plant - 400 gallons per diesel generator (Material Safety Data Sheet, attached).



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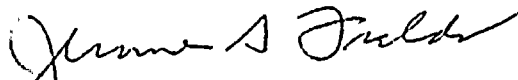
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- o Discharge the quaternary biocide and chlorine flushings to the Cooling Tower Basins. These flushings could be combined or separate. Each of the two Cooling Tower Basins has approximately 7,000,000 gallons of water and PP&L does not expect any NPDES permit violations for chlorine.

Please advise PP&L of your approval for this activity by September 13, 1985. If you have any questions or concerns, please contact Mr. Ray Tombaugh at (215) 770-7748 or me at (215) 770-7889.

Respectfully yours,



Jerome S. Fields
Sr. Environmental Scientist-Nuclear

JSF/amc

jsflth002893a

cc: A. Schwencer, NRC

Attachment

MATERIAL SAFETY DATA SHEET

EMERGENCY TELEPHONE NUMBER 215/355-3300

PRODUCT : PRE-FILM 108L

EFFECTIVE DATE 1/84

* NFPA
* HEALTH - 1
* FIRE - 0
* REACTIVITY-0
* SPECIAL - -

-----SECTION 1-----HAZARDOUS INGREDIENTS-----

OSHA INGREDIENT PERMISSIBLE EXPOSURE LIMIT:

NONE

ACGIH INGREDIENT TLV-TWA:

NONE

*** GENERIC DESCRIPTION ***

AN AQUEOUS SOLUTION OF PHOSPHATE SALTS AND A FREE ACID OF COMPLEX ORGANIC PHOSPHATE ESTER.

-----SECTION 2-----TYPICAL PHYSICAL DATA-----

PH: AS IS (APPROX.) 7.6	B.P.T. OF OR B.RANGE: ND
FL.PT.(DEG.F): >200 SETA(CC)	SP.GR.(70/70°F)OR DENSITY: 1.175
VAPOR PRESSURE(mmHG): ND	VAPOR DENSITY(AIR=1): ND
VISC cps70°F: 4.7	ZVOLATILES: ND
EVAP.RATE: <1 ETHER=1	%SOLUBILITY(WATER): 100
PHYSICAL STATE: LIQUID	APPEARANCE: COLORLESS
ODOR: NONE	FREEZE POINT(DEG.F): 26

-----SECTION 3-----REACTIVITY DATA-----

THERMAL DECOMPOSITION YIELDS OXIDES OF C,N,S,OR P IF PRESENT,
STABLE

-----SECTION 4-----HEALTH HAZARD EFFECTS-----

ACUTE SKIN EFFECTS***
SLIGHTLY IRRITATING TO THE SKIN
ACUTE EYE EFFECTS***
SLIGHTLY IRRITATING TO THE EYES
ACUTE RESPIRATORY EFFECTS***
MISTS/AEROSOLS MAY CAUSE IRRITATION TO UPPER RESPIRATORY TRACT
CHRONIC EFFECTS***
CHRONIC EFFECTS OF THIS FORMULATION HAVE NOT YET BEEN FULLY EVALUATED

-----SECTION 5-----FIRST AID INSTRUCTIONS-----

SKIN CONTACT***
REMOVE CONTAMINATED CLOTHING.WASH EXPOSED AREA WITH A LARGE QUANTITY OF SOAP SOLUTION OR WATER FOR 15 MINUTES
EYE CONTACT***
IMMEDIATELY FLUSH EYES WITH WATER FOR 15 MINUTES.IMMEDIATELY CONTACT A PHYSICIAN FOR ADDITIONAL TREATMENT
INHALATION EXPOSURE***
REMOVE VICTIM FROM CONTAMINATED AREA TO FRESH AIR.APPLY APPROPRIATE FIRST AID TREATMENT AS NECESSARY
INGESTION***
GENERAL-DO NOT FEED ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSIVE VICTIM
SPECIFIC- DILUTE CONTENTS OF STOMACH.INDUCE VOMITING BY ONE OF THE STANDARD METHODS.IMMEDIATELY CONTACT A PHYSICIAN

OVER

-----SECTION 6-----SPILL, DISPOSAL AND FIRE INSTRUCTIONS-----

SPILL INSTRUCTIONS***

GENERAL-VENTILATE AREA, USE SPECIFIED PROTECTIVE EQUIPMENT. CONTAIN AND ABSORB ON ABSORBENT MATERIAL. PLACE IN WASTE DISPOSAL CONTAINER. THE WASTE CHARACTERISTICS OF THE ABSORBED MATERIAL, OR ANY CONTAMINATED SOIL, SHOULD BE DETERMINED IN ACCORDANCE WITH RCRA REGULATIONS. SPECIFIC- FLUSH AREA WITH WATER. WET AREA MAY BE SLIPPERY. IF SO, SPREAD SAND OR GRIT.

DISPOSAL INSTRUCTIONS***

GENERAL-WATER CONTAMINATED WITH THIS PRODUCT MAY BE SENT TO A SANITARY SEWER, IN ACCORDANCE WITH ANY LOCAL AGREEMENT, A TREATMENT FACILITY OR DISCHARGED UNDER A NPDES PERMIT
PRODUCT (AS IS)- INCINERATE OR BURY IN APPROVED LANDFILL

FIRE EXTINGUISHING INSTRUCTIONS***

GENERAL-FIREFIGHTERS SHOULD WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS (FULL FACE-PIECE TYPE).
DRY CHEMICAL, CARBON DIOXIDE, FOAM OR WATER

-----SECTION 7-----SPECIAL PROTECTIVE EQUIPMENT-----

VENTILATION PROTECTION***

ADEQUATE VENTILATION

RECOMMENDED RESPIRATORY PROTECTION***

IF VENTILATION IS INADEQUATE OR SIGNIFICANT PRODUCT EXPOSURE IS LIKELY, USE A RESPIRATOR WITH DUST/MIST/FUME CARTRIDGES

RECOMMENDED SKIN PROTECTION***

RUBBER GLOVES

REPLACE AS NECESSARY

RECOMMENDED EYE PROTECTION***

SPLASH PROOF CHEMICAL GOGGLES

-----SECTION 8-----STORAGE AND HANDLING PRECAUTIONS-----

STORAGE INSTRUCTIONS***

GENERAL-KEEP CONTAINER CLOSED

SPECIFIC- PROTECT FROM FREEZING. IF FROZEN, THAW COMPLETELY AND MIX THOROUGHLY PRIOR TO USE

HANDLING INSTRUCTIONS***

GENERAL-IMMEDIATELY REMOVE CONTAMINATED CLOTHING, WASH BEFORE REUSE
SPECIFIC- NORMAL CHEMICAL HANDLING

-----SECTION 9-----FEDERAL REGULATIONS-----

FIFRA(40CFR): EPA REG. NO. NOT APPLICABLE

OSHA(29CFR)-FOR RESPIRATORY PROTECTION USE PROPERLY FITTED MSHA/NIOSH APPROVED RESPIRATORY EQUIPMENT WITHIN USE LIMITATIONS. OTHERWISE, USE SUPPLIED AIR APPARATUS.

CWA(40CFR) REPORTABLE QUANTITY: AS IS PRODUCT (HAZARDOUS SUBSTANCE)
NOT APPLICABLE

RCRA(40CFR): IF DISCARDED, THIS MATERIAL BEARS HWI NOT APPLICABLE

DOT(49CFR) CLASSIFICATION: NOT APPLICABLE

USDA FEDERALLY INSPECTED MEAT AND POULTRY PLANTS- AUTHORIZATION: NONE

THIS FORM IS ESSENTIALLY EQUAL TO OSHA 20 FORM. WHILE THE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN ARE BELIEVED TO BE ACCURATE AS OF THE DATE HEREOF, BETZ LABORATORIES, INC. MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

HAROLD M. HERSH
ENVIRONMENTAL INFORMATION COORDINATOR